

Present Status of Stand-by in Japan

Jyukankyo Research Institute

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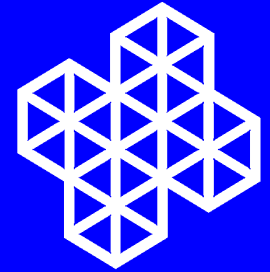
Chiharu MURAKOSHI

Yoshiaki SHIBATA

ACEEE

August 2002

Stand-by Researches 1999



measurement

<51 households, 955 appliances>

- ☐ stand-by Power (Watt) of appliances

questionnaire

<933 households>

- ☐ number of appliances owned
 - ☐ hour of use
 - ☐ plug on-off

Stand-by Researches 2000



questionnaire

<40 electric appliance manufacturers>

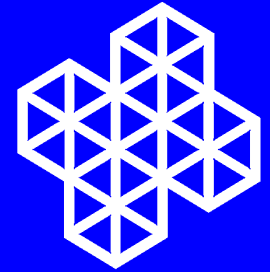
- ☐ power (Watt) by mode for product in 2000
(47 items, 1753 samples)
- ☐ activity to reduce stand-by
- ☐ information service for consumers

questionnaire

< 92 gas/oil equipment manufacturers >

- ☐ power (Watt) by mode for product in 2000
(10 items, 278 samples)

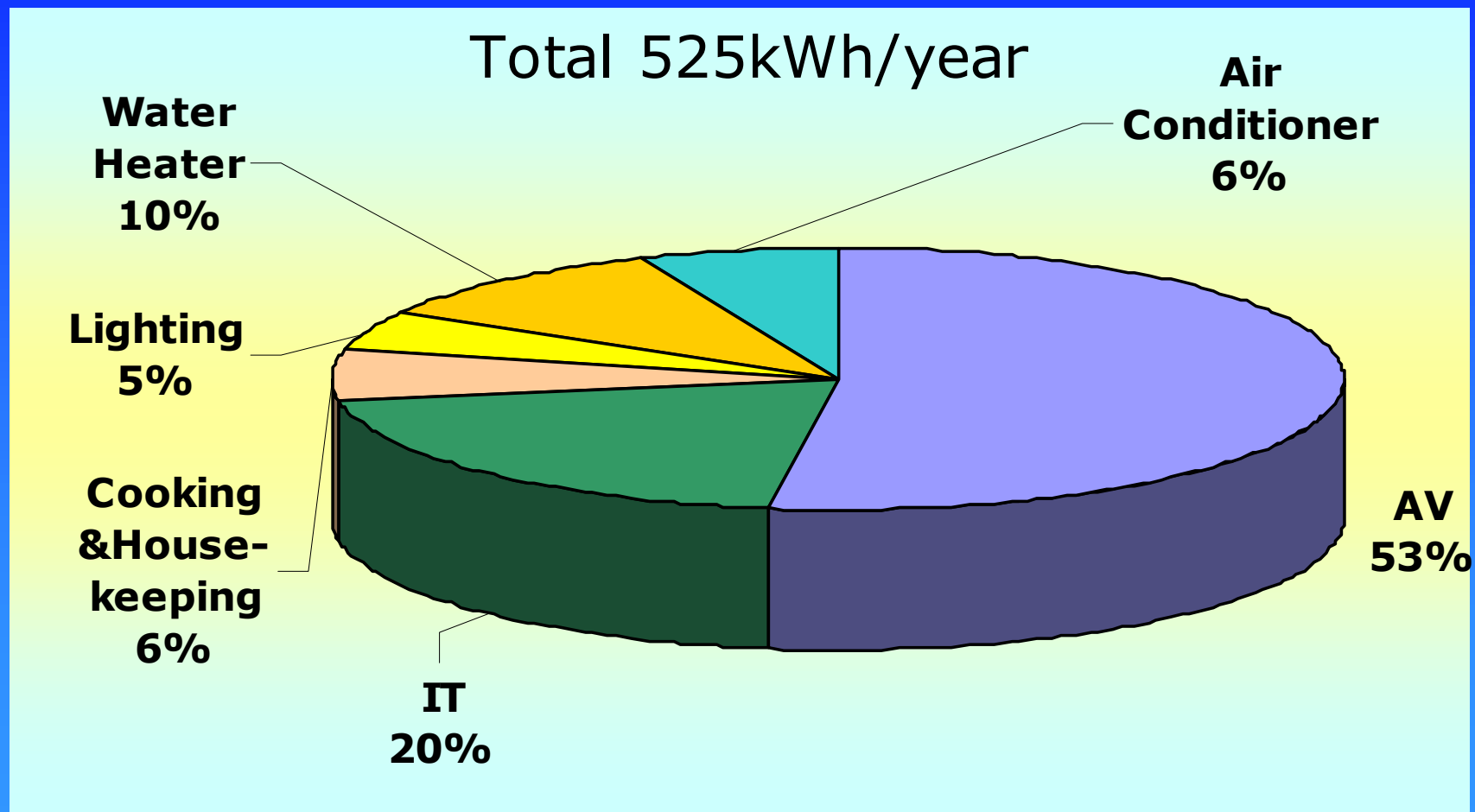
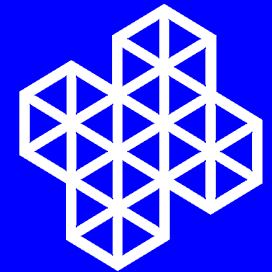
Stand-by Researches 2001



questionnaire <1503 households>

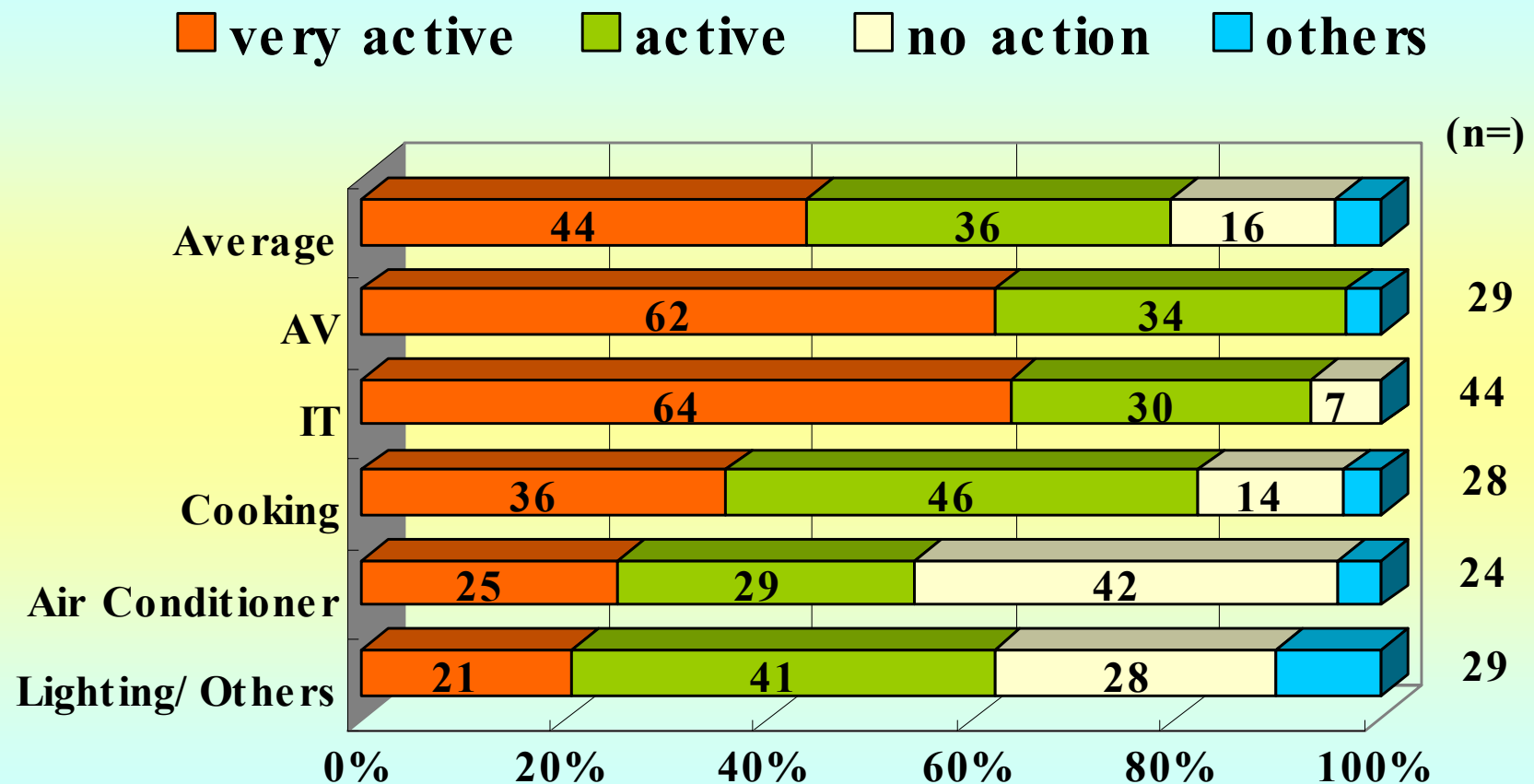
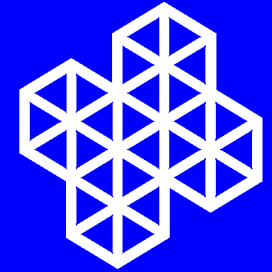
- ☐ number of appliances owned
 - ☐ hour of use
 - ☐ plug on-off

Stand-by Power Consumption Per household (estimated for 2001)

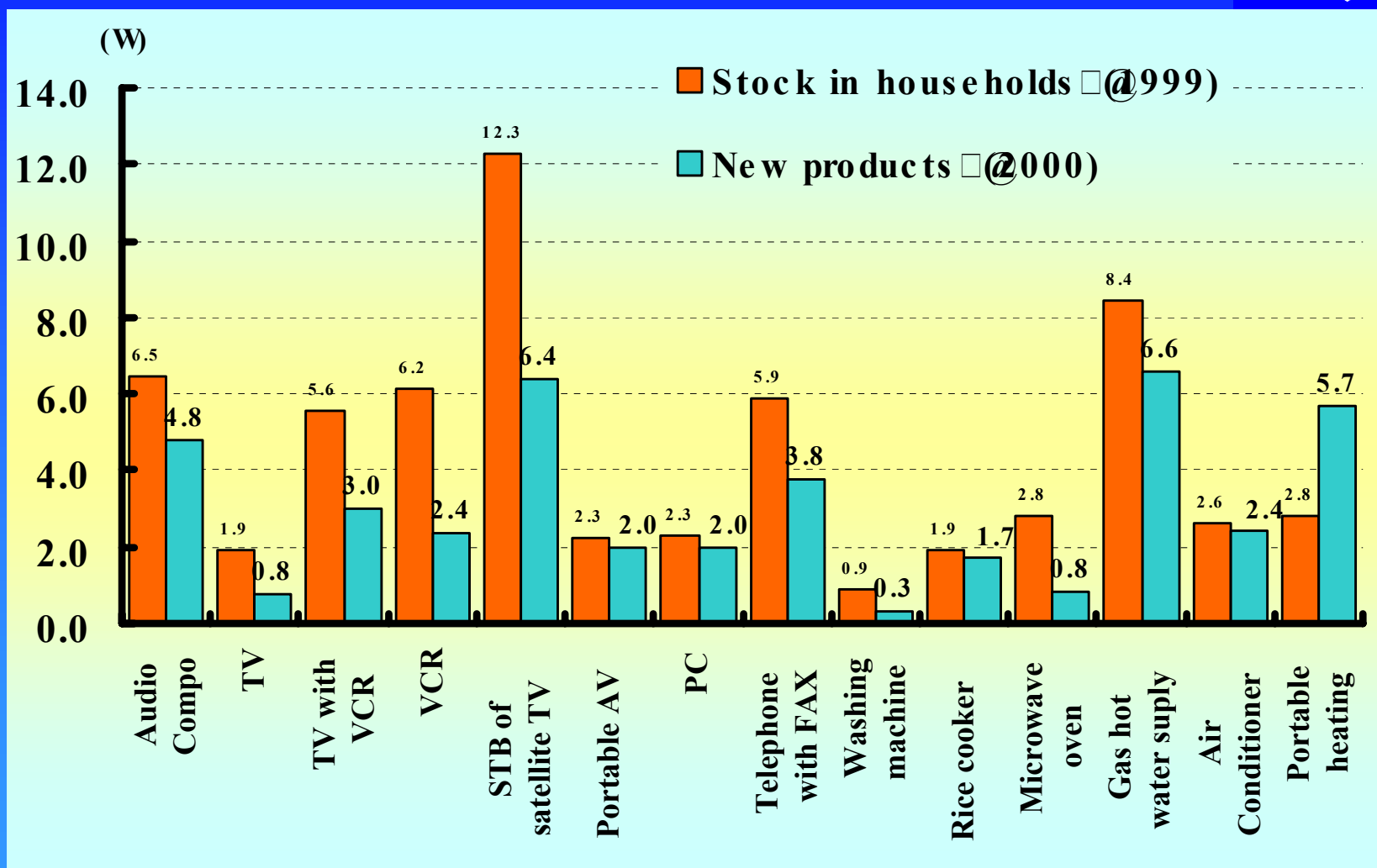
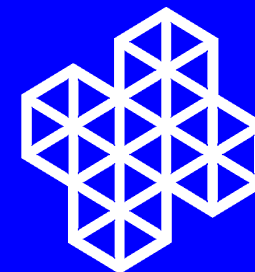


Used data: measured stand-by (W) in 1999,
number of appliances owned in 2001, use of hour in 2001

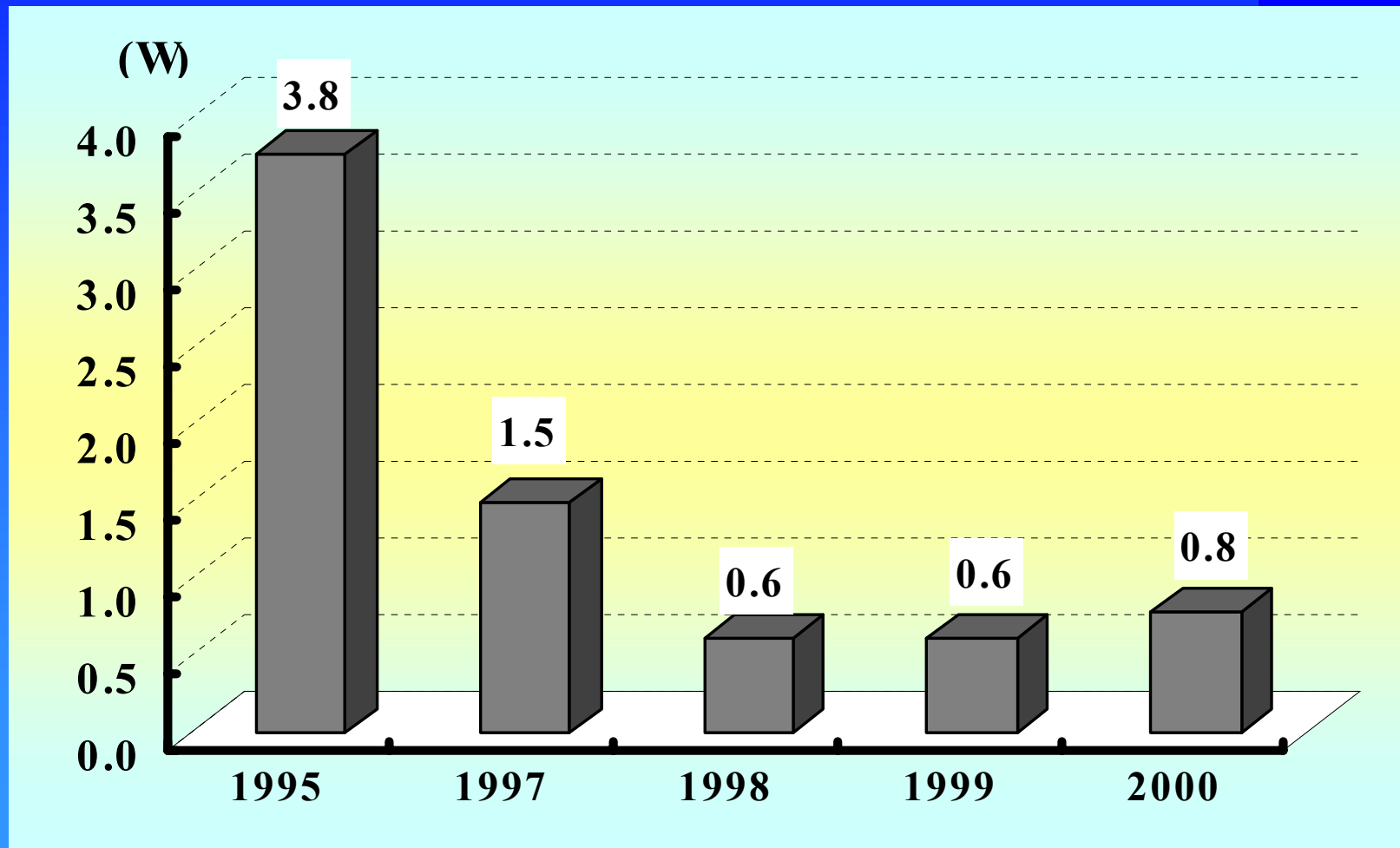
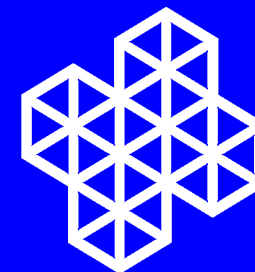
Voluntary Effort to Reduce Stand-by Manufactures in 2000



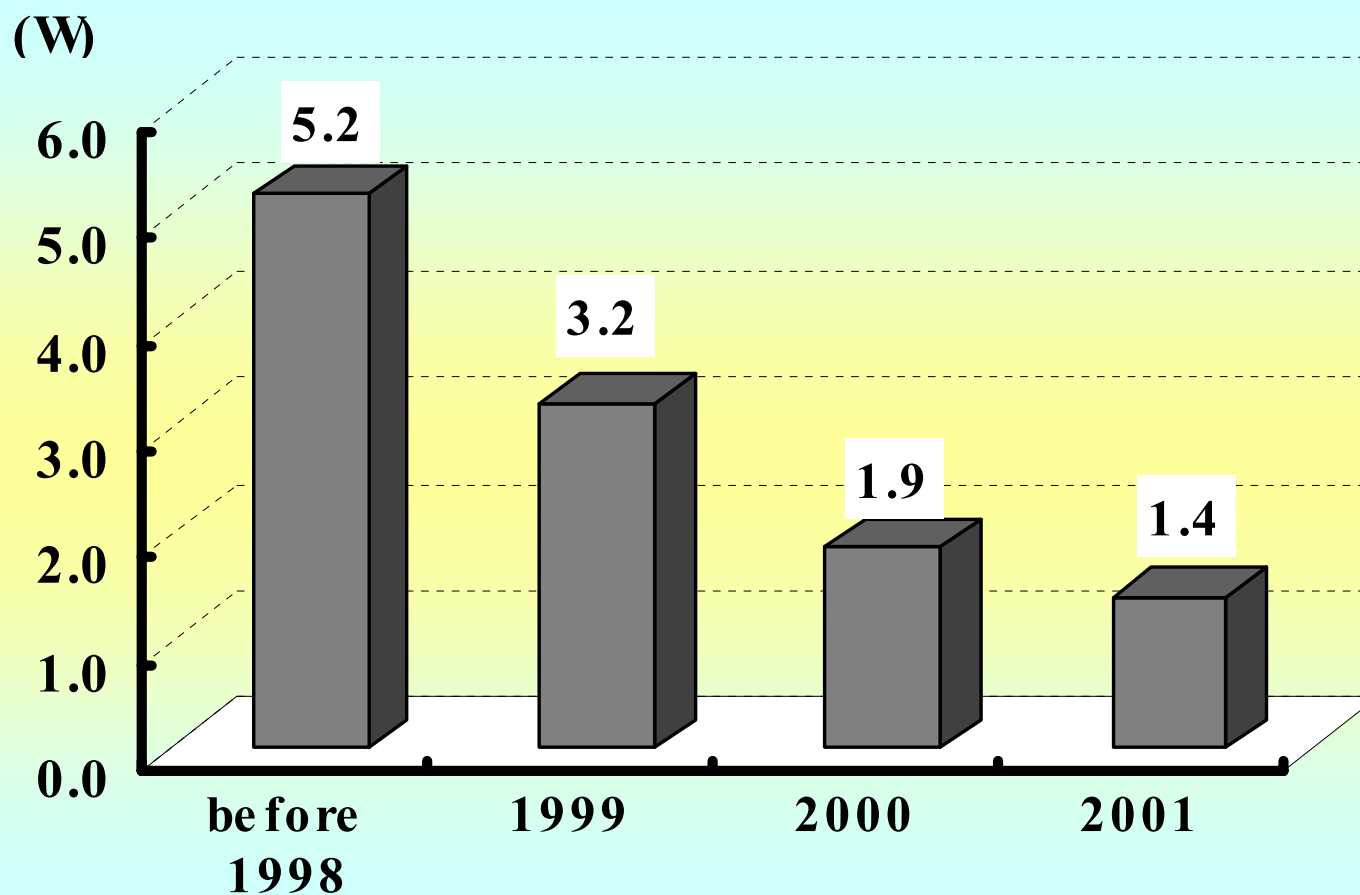
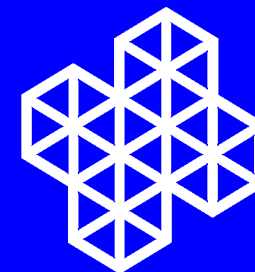
Stand-by Evolution



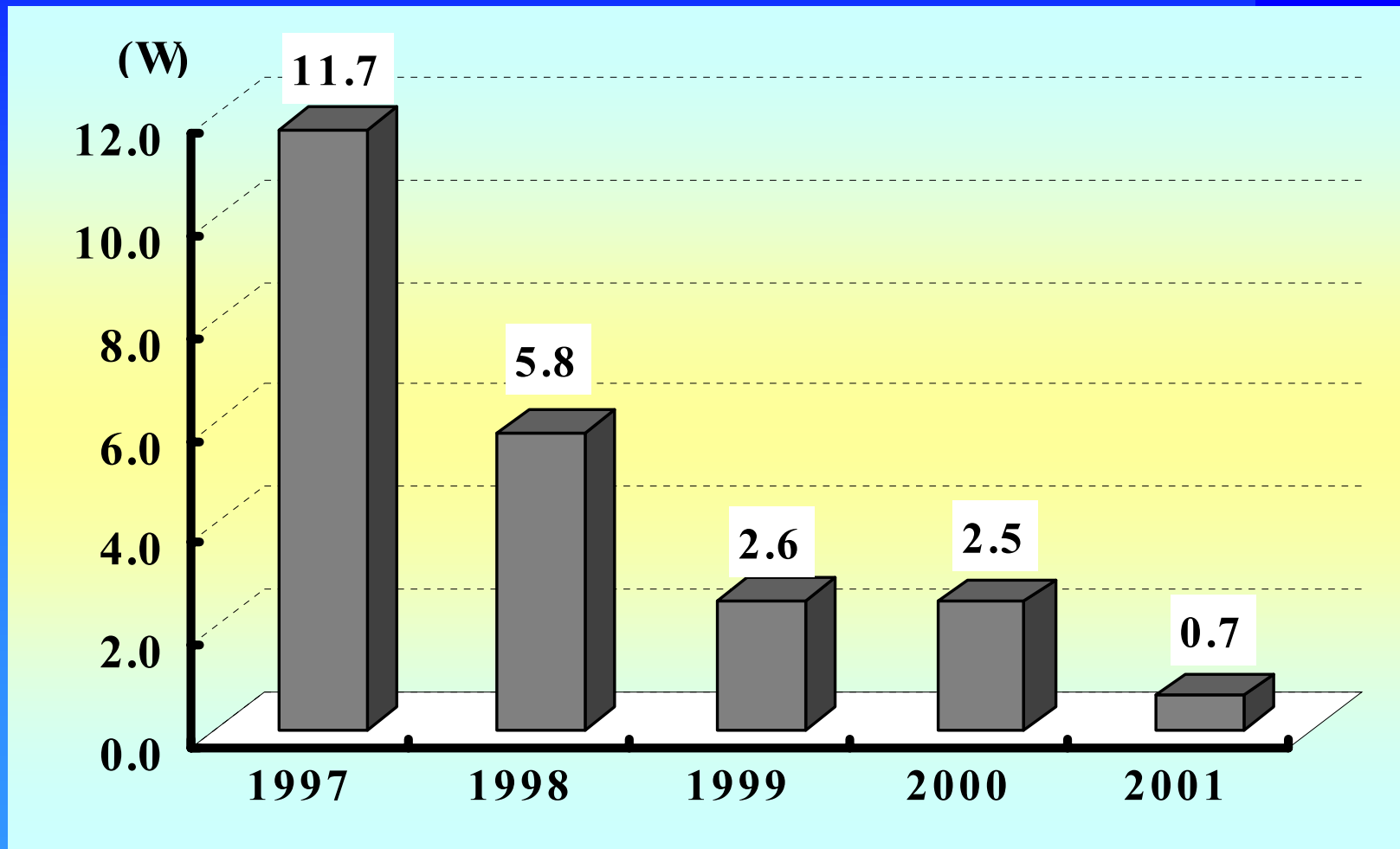
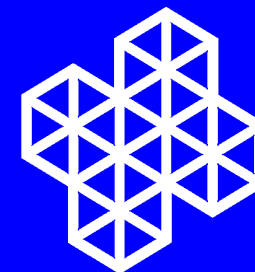
Stand-by Power by Product Year (TV Set)



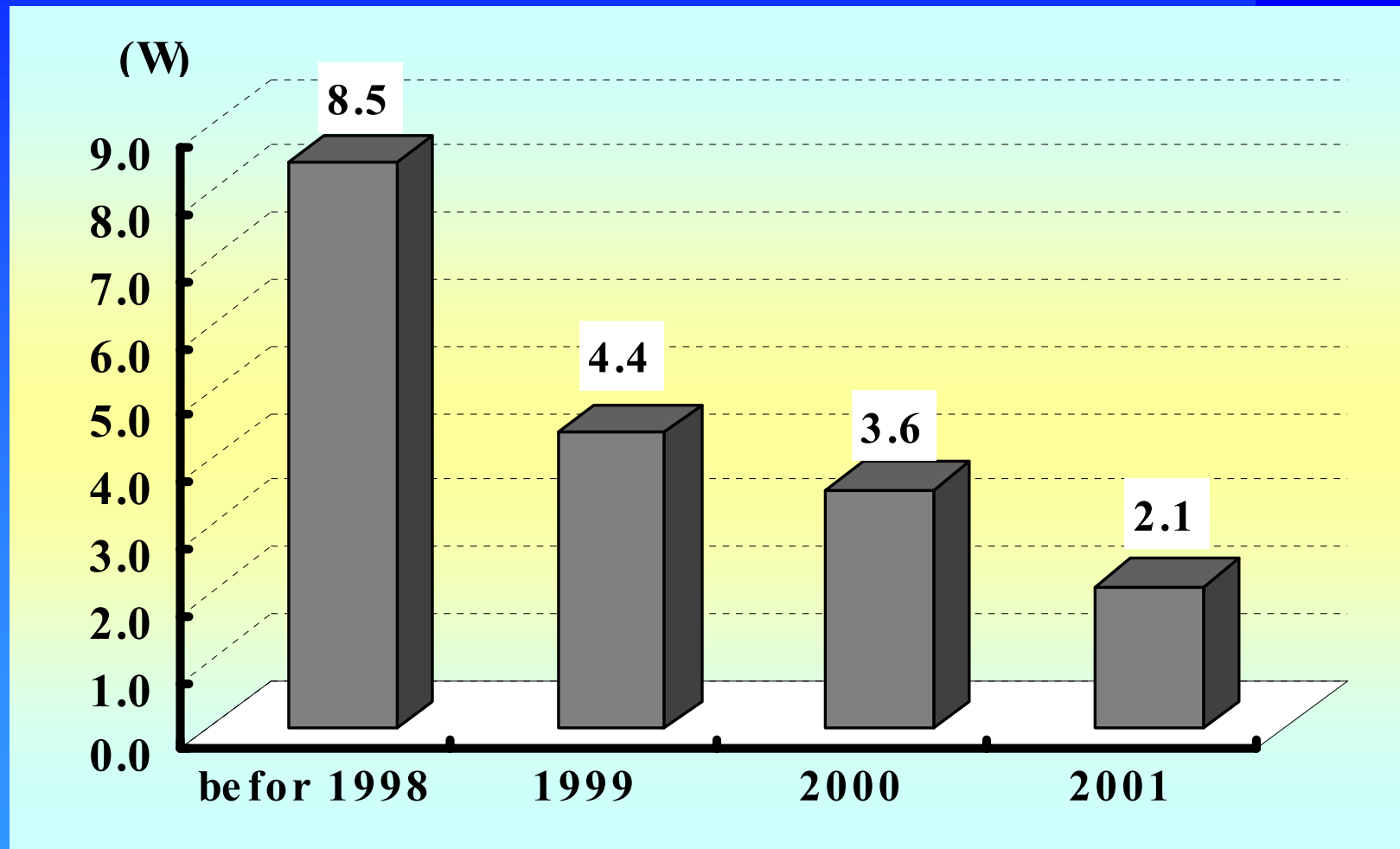
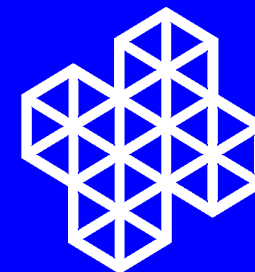
Stand-by Power by Product Year (VCR)



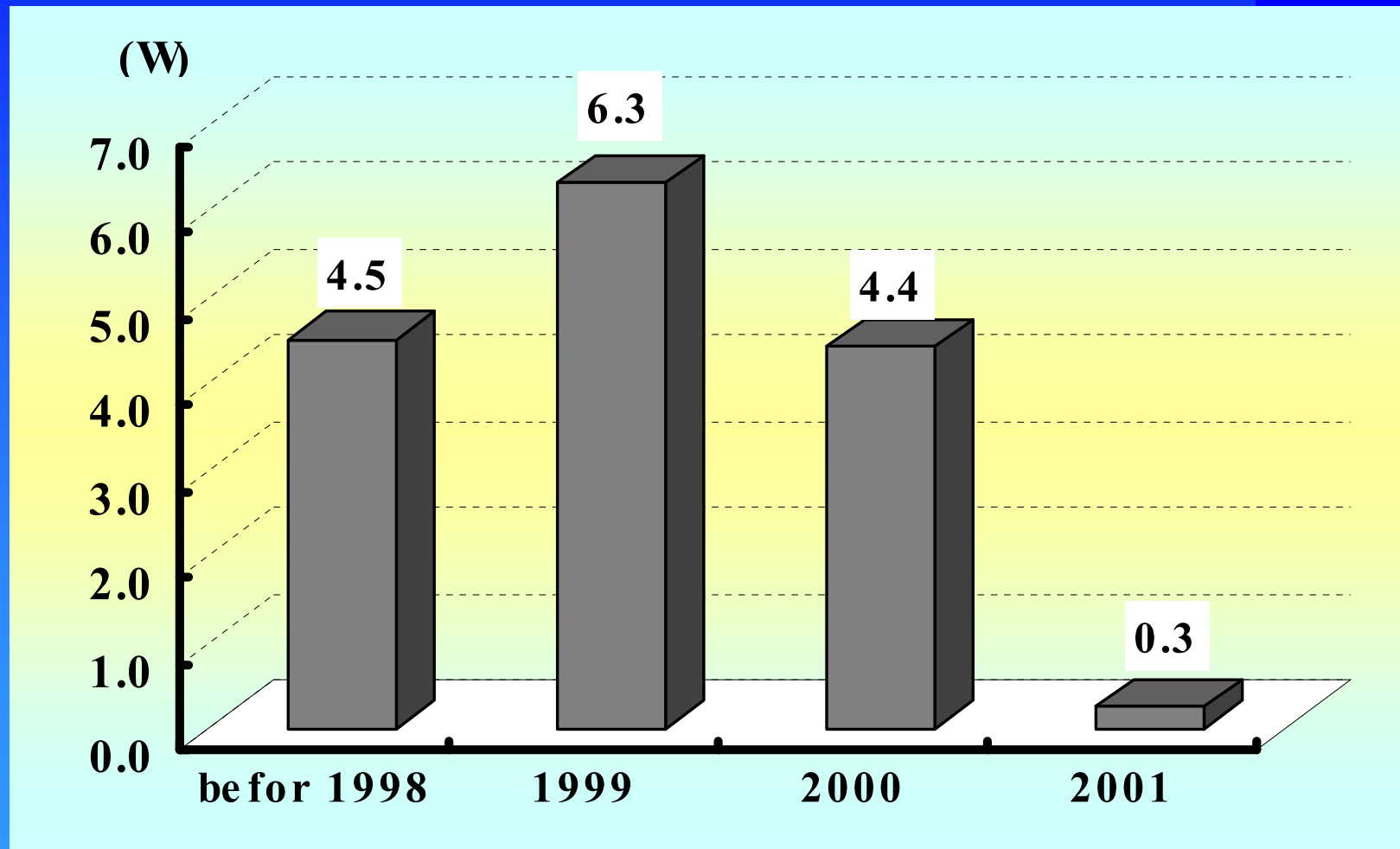
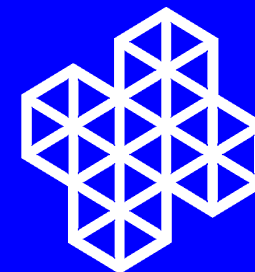
Stand-by Power by Product Year (TV set with VCR)

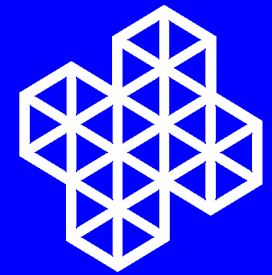


Stand-by Power by Product Year (Fax-Phone Machine)

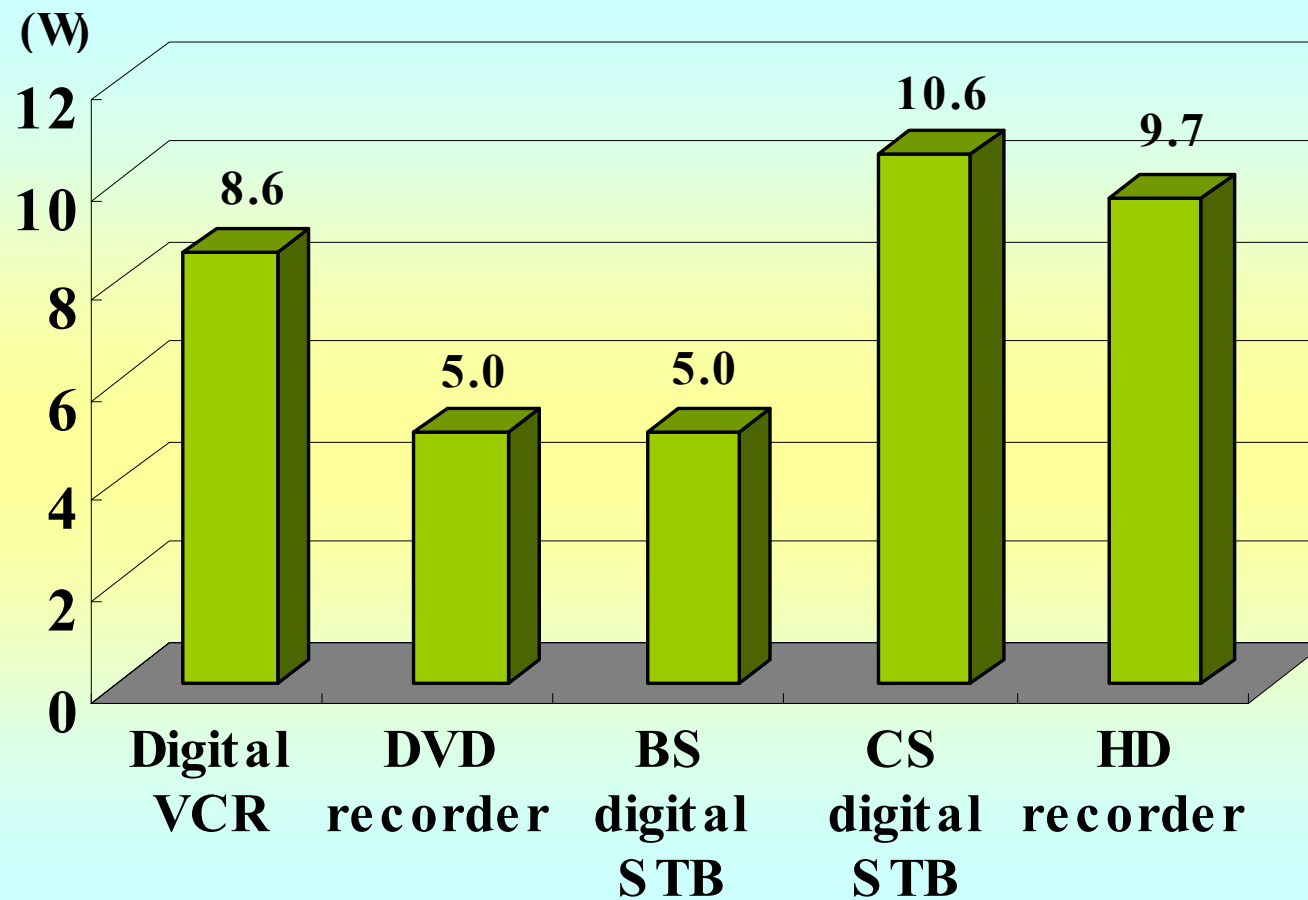


Stand-by Power by Product Year (Component Stereo Set :small type)



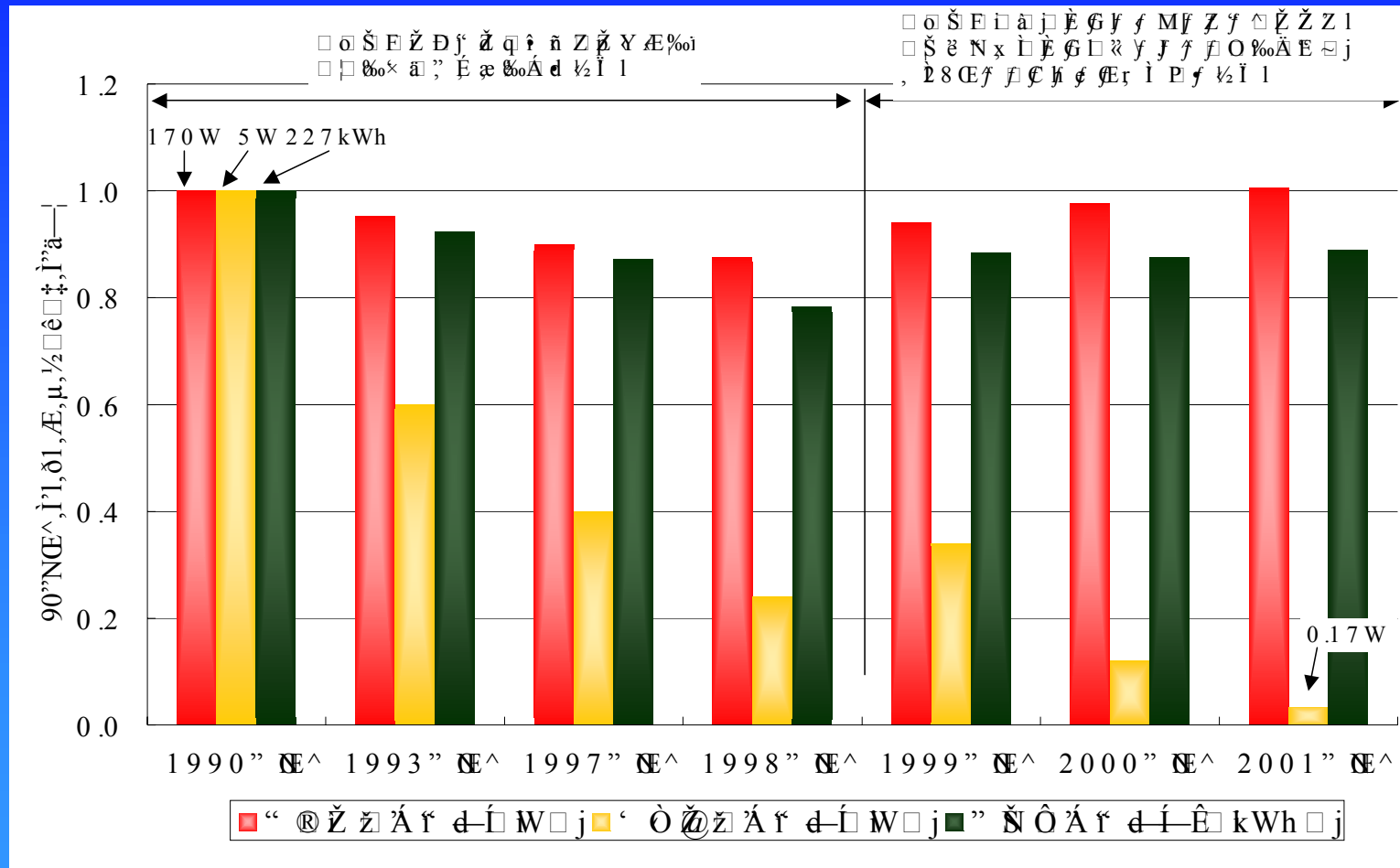


Stand-by Power of Digital AV appliances



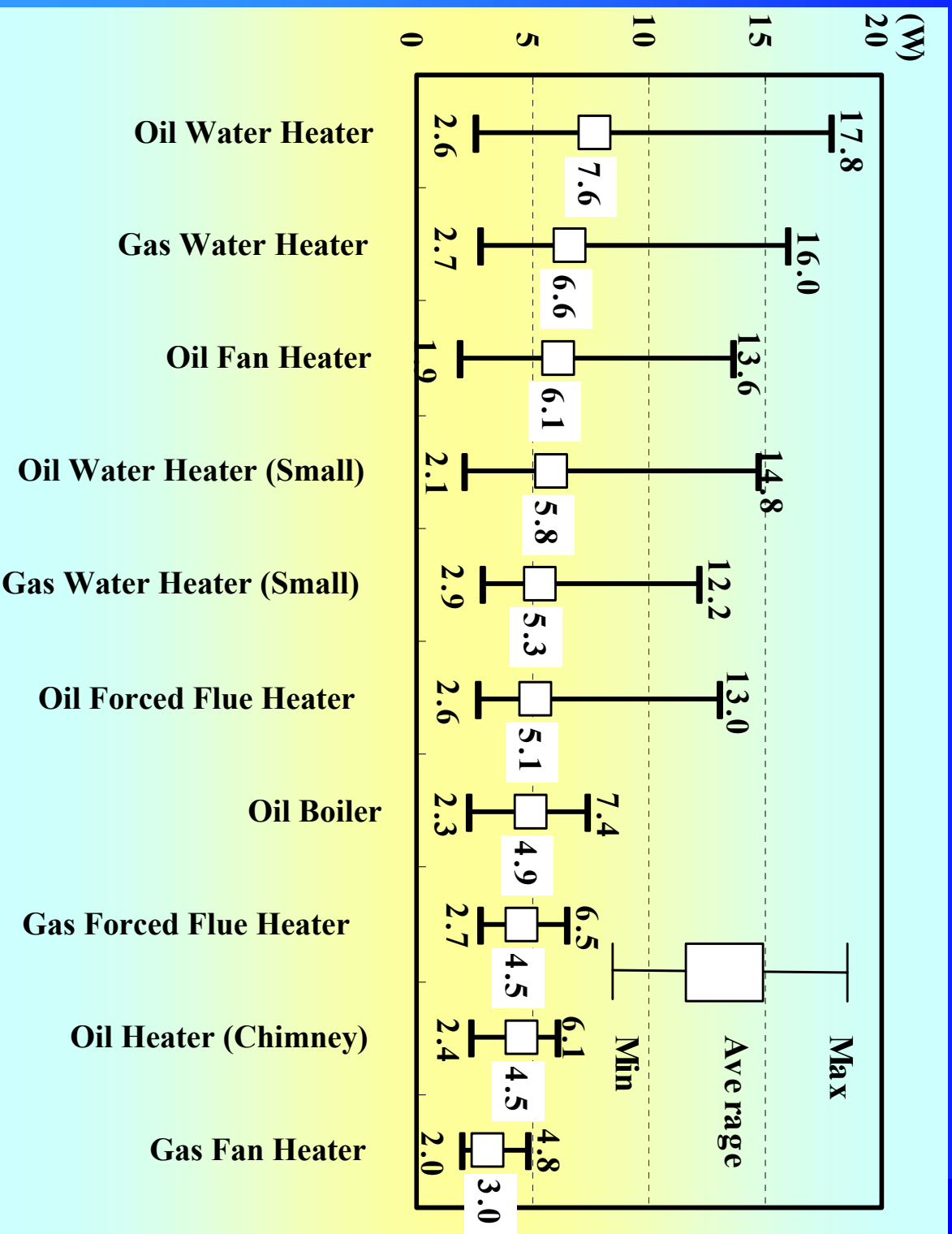
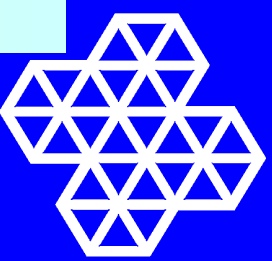
Trend of Energy Efficiency Performance of TV

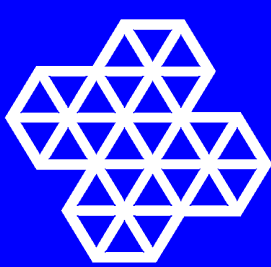
(TV with BS(28-29 inch) average)



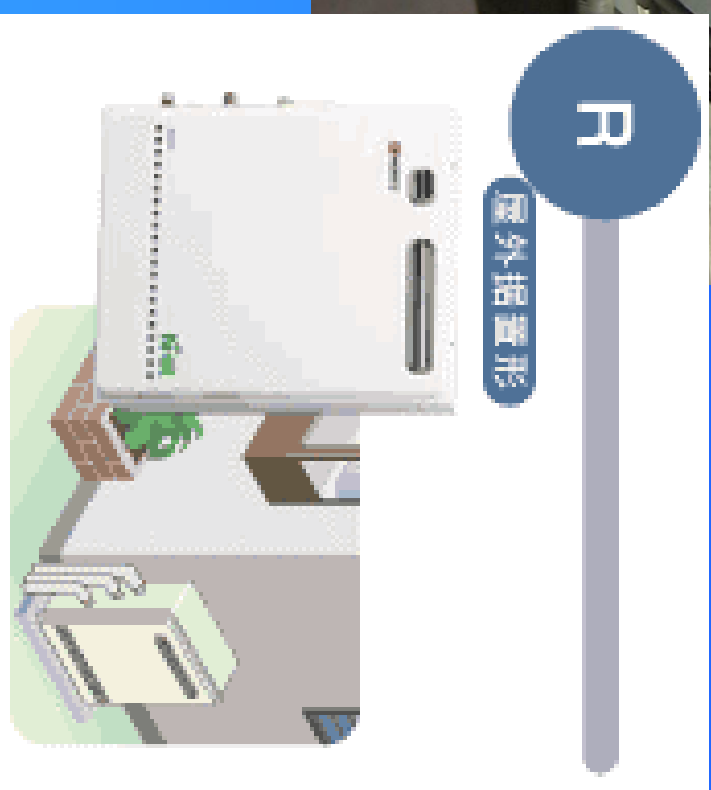
- more wide and flat
- reduced standby power

Stand-by Power of Gas/Oil Equipment

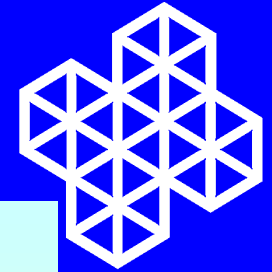




Boiler for Hot Water Supply



Stand-by Reduction Potential



kWh/house
hold/year

5000

4000

3000

2000

1000

0

4,472

4,309

11.7%

8.4%

524

361

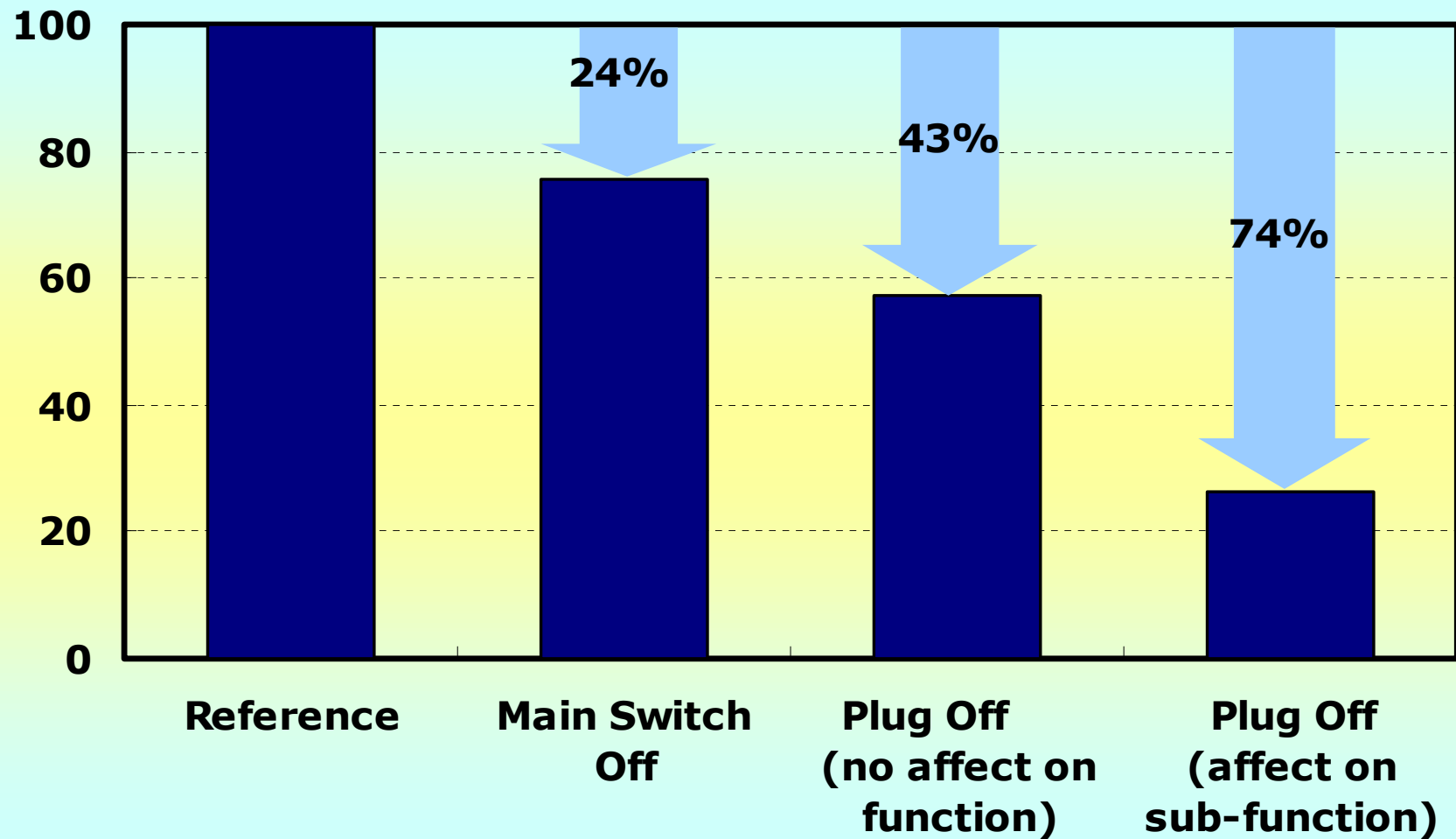
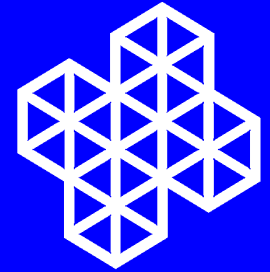
2001

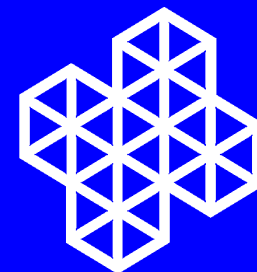
Potential

measured stand-by (W) in 1999

stand-by (W) of products in 2000

Reduction Effect by Type of Action





Thank you for your listening!

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